Hollywood Branch Stream Restoration Project

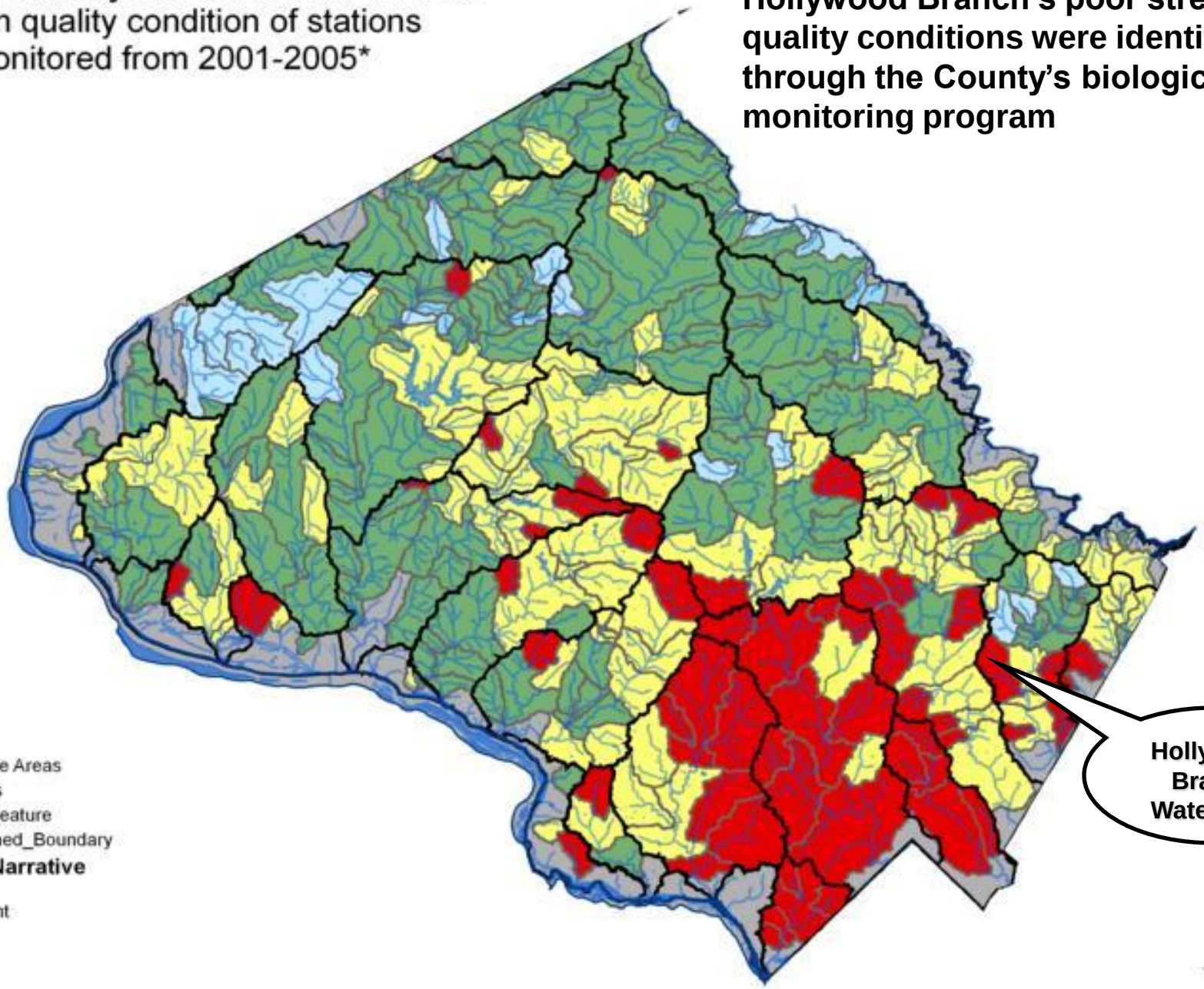
Montgomery County

Department of Environmental Protection

Stream Quality Conditions 2001-2005

Stream quality condition of stations monitored from 2001-2005*

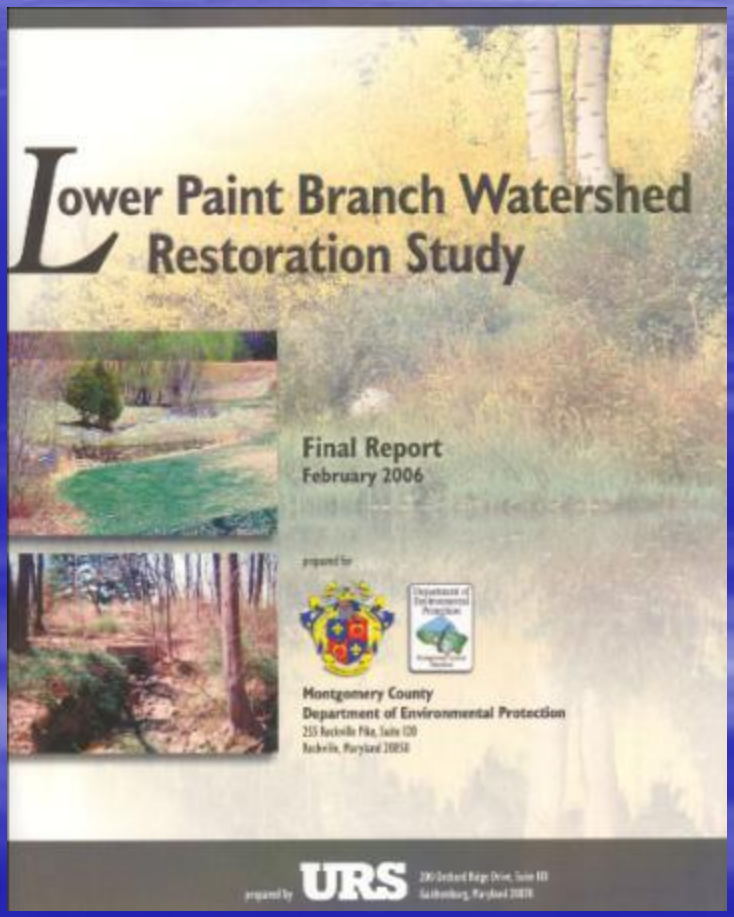
Hollywood Branch's poor stream quality conditions were identified through the County's biological monitoring program



*Horsepen Branch was monitored in 2000

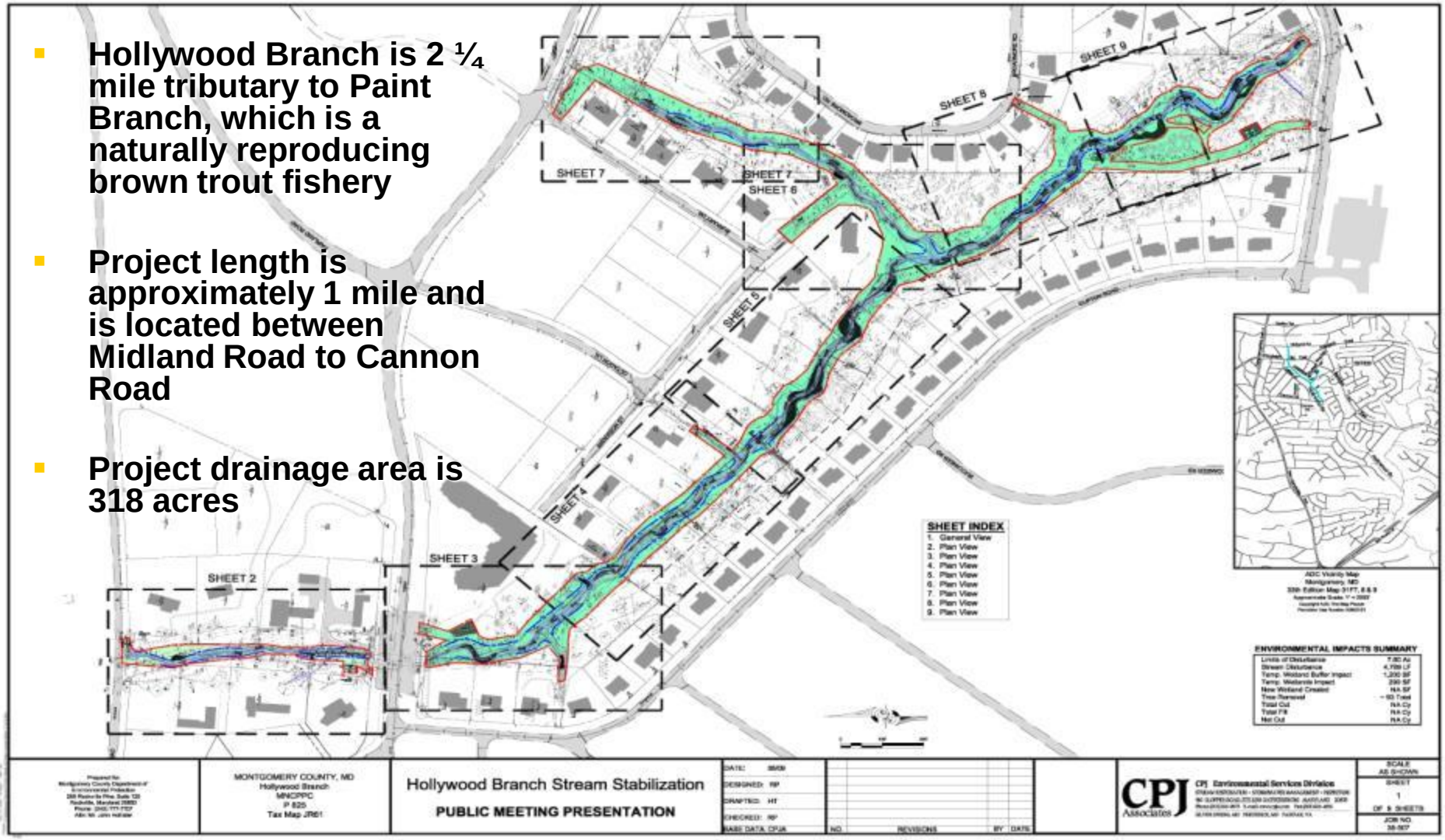
Lower Paint Branch Watershed Study

- Identified, prioritized, and designed potential stream restoration and stormwater management projects
- 6 top ranked stormwater management sites were chosen from 9 potential sites
- 24 stream reaches totaling 10 miles were field reviewed and selected for final concept design
- Hollywood Branch identified as a priority stream restoration project



Hollywood Branch Stream Restoration Project

- Hollywood Branch is 2 ¼ mile tributary to Paint Branch, which is a naturally reproducing brown trout fishery
- Project length is approximately 1 mile and is located between Midland Road to Cannon Road
- Project drainage area is 318 acres



Goals of the Hollywood Branch Restoration Project

- Stabilizing eroding stream channel to reduce sediment impairment
- Preventing future erosion
- Repairing damaged stormdrain outfalls
- Improving stream habitat conditions
- Protecting and Replanting stream buffers
- Creating micro wetlands to treat runoff, recharge stream base flows and increase habitat conditions for amphibians
- Coordinating with WSSC to repair, and protect sewer line infrastructure
- Project is working towards addressing the Anacostia River Total Maximum Daily Load (TMDL) requirements and County Stormwater Permit (NPDES)

High Quality Watershed Characteristics

- Highly forested Watershed
- Minimal development
- Minimal stream erosion
- Natural, stable hydrologic system

Problems Associated with Urban Characteristics Identified in Hollywood Branch

- Unstable stream channel contributing excess sediment and associated nutrients to the stream and Anacostia River
- Poor stream buffer conditions
- Exposed utilities and damaged outfalls
- Poor stream conditions for native fish and aquatic insects
- Limited stormwater management in the watershed
- Densely developed neighborhoods

Examples of Problems Identified in Hollywood Branch

Stream deepening and widening

Stream undermining trees

Stream eroding around sewer manhole

Stream eroding into the forest buffer

Examples of Problems Identified in Hollywood Branch

Stream 3.5 feet deep and widening towards a residents driveway

Tree roots temporarily holding the stream grade near Burkhart Street

Stream erosion impacting private property

Stream exposing sewer lines

Example Stream Restoration Construction Access Points

During Construction

After Construction

Important Construction Practices Use to Reduce Impacts

Timber mats
use to protect tree roots

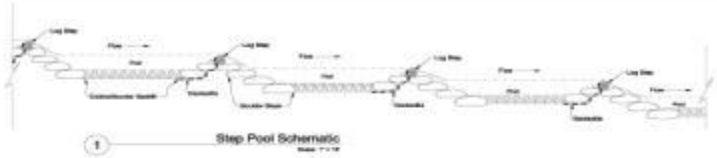
Tree protection

Wood mulched access roads
protect tree roots and
reduce soil disturbance

Rubber tracked vehicles help
reduce soil compaction

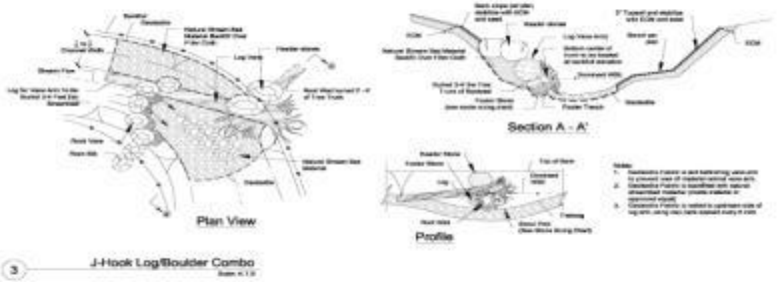
Next Steps

- Mandatory Referral meeting – April 2010
- Apply for permits – May 2010
- Construction - Summer 2011

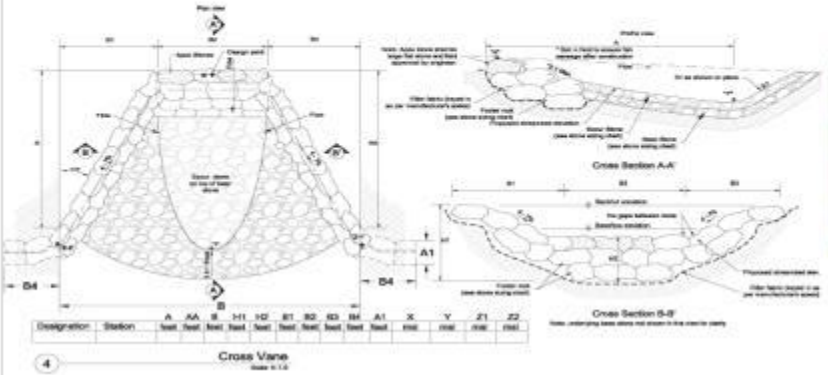


1 Step Pool Schematic

2 STEP POOL



3 J-Hook Log/Boulder Combo



4 Cross Vane

HOLLYWOOD BRANCH STREAM RESTORATION PROJECT
DETAILS AND EXAMPLES

Visit one of the three stations for more details regarding the project

Department of Environmental Protection

Montgomery County
Maryland